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 W O R L D (TM)  
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Mparchm n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Wed Sep 2 19:23:41 1998; Maspar time 50.71 Seconds  
 673.453 Million cell updates/sec  
 ular output not generated.

Title: >US-09-052-855A-8  
 Description: (1.251) from US09052855A.seq  
 Perfect Score: 251  
 N.A. Sequence: 1 GGGGGGTCGACGTGCTG.....GATGAGGCGTCGATCGCC 251  
 Comp: CCCCCGTCGACGACGAC.....CTACCTCCGACGTCAGGGG

Scoring table: TABLE default  
 Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 188442 segs, 68026449 bases x 2

Post-processing: Minimum Match 08  
 Listing first 45 summaries

Database:

n-geneseg12  
 1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7  
 8:part8 9:part9 10:part10 11:part11 12:part12 13:part13  
 14:part14 15:part15 16:part16 17:part17 18:part18  
 19:part19 20:part20 21:part21 22:part22 23:part23  
 24:part24 25:part25 26:part26 27:part27 28:part28  
 29:part29 30:part30 31:part31 32:part32 33:part33  
 34:part34 35:part35 36:part36 37:part37 38:part38  
 39:part39 40:part40

Statistics: Mean 7.773; Variance 4.608; scale 1.687

Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	Pred. No.
1	251	100.0	548	40	Polynucleotide sequen	5.18e-156
2	249	99.2	548	27	Human colon specific	1.37e-154
3	41	16.3	91	9	Oligonucleotide probe	1.27e-11
4	36	14.3	91	9	Oligonucleotide probe	1.24e-08
5	35	13.9	204	1	Base substituted E.co	4.80e-08
6	32	12.7	114	12	Generic DNA sequence	2.62e-06
7	32	12.7	114	12	Generic DNA sequence	2.62e-06
8	32	12.7	114	12	Generic DNA sequence	2.62e-06
9	32	12.7	178	32	Human endothelin-1 an	2.62e-06
10	32	12.7	204	1	Base substituted E.co	2.62e-06
11	30	12.0	114	12	Generic DNA sequence	3.56e-05
12	30	12.0	114	12	Generic DNA sequence	3.56e-05
13	26	10.4	114	12	Generic DNA sequence	5.61e-03

C	14	26	10.4	114	12	070470	Generic DNA sequence	5.61e-03
C	15	25	10.0	82	21	T13610	DC43 TSAR library gen	1.91e-02
C	16	24	9.6	114	12	070467	Generic DNA sequence	6.40e-02
C	17	24	9.6	114	12	070465	Generic DNA sequence	6.40e-02
C	18	24	9.6	178	32	T76405	Human endothelin-1 an	6.40e-02
C	19	23	9.2	69	21	T13583	TSAR-9 library genera	2.10e-01
C	20	23	9.2	75	21	T13612	DC43 TSAR library gen	2.10e-01
C	21	23	9.2	114	12	070468	Generic DNA sequence	2.10e-01
C	22	23	9.2	114	12	070466	Generic DNA sequence	2.10e-01
C	23	23	9.2	130	32	T76152	Human vascular cell a	2.10e-01
C	24	23	9.2	168	30	T76370	Human MDCK cell a	2.10e-01
C	25	23	9.2	172	32	T76363	Human Interleukin 8 a	2.10e-01
C	26	23	9.2	147	30	T64548	MDP-specific guttama	2.10e-01
C	27	23	9.2	150	30	T64547	MDP-specific guttama	2.10e-01
C	28	23	9.2	196	30	T64531	Glutamate dehydrogena	2.10e-01
C	29	23	9.2	209	30	T64543	MDP-specific guttama	2.10e-01
C	30	23	9.2	209	30	T64530	MDP-specific guttama	2.10e-01
C	31	23	9.2	213	30	T64542	MDP-specific guttama	2.10e-01
C	32	23	9.2	210	30	T64529	MDP-specific guttama	2.10e-01
C	33	22	8.8	36	2	Q11195	Ballast Constituent C	6.75e-01
C	34	22	8.8	39	7	Q51787	Mixed oligonucleotide	6.75e-01
C	35	22	8.8	66	21	T13585	TSAR-9 library genera	6.75e-01
C	36	22	8.8	81	21	T13611	DC43 TSAR library gen	6.75e-01
C	37	22	8.8	114	12	070471	Generic DNA sequence	6.75e-01
C	38	22	8.8	114	12	070473	Generic DNA sequence	6.75e-01
C	39	22	8.8	510	13	T78177	Hydroxylamine oxidore	6.75e-01
C	40	22	8.8	65	21	T13586	TSAR-9 library genera	2.12e-00
C	41	21	8.4	68	21	T13584	TSAR-9 library genera	2.12e-00
C	42	21	8.4	89	32	T76319	Human ILS antisense o	2.12e-00
C	43	21	8.4	111	16	T02621	MS-associated retrovi	2.12e-00
C	44	21	8.4	291	31	T62461	TNR-GPA1 fusion gene.	2.12e+00
C	45	21	8.4					

#### ALIGNMENTS

RESULT 1  
 ID V16671 standard; cDNA: 548 BP.  
 AC V16671;  
 DT 22-JUN-1998 (first entry)  
 DE Polynucleotide sequence of a colon-specific gene.  
 KW Colon-specific gene; probe; detection; expression; human;  
 OS Homo sapiens.  
 FH Key Location/Qualifiers  
 FT CDS 1..406  
 FN US5733748-A.  
 PD 31-MAR-1998.  
 PE 06-JUN-1995; 469667.  
 PR 06-JUN-1995; US-469667.  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 PI Rosen C, Yu G;  
 DR WPI: 98-229823/20.  
 DR P-PSDB: W46878.  
 PT Colon-specific nucleic acids - useful as probes for detecting colon  
 cancer micrometastases  
 PS Claim 15: Fig 4: 51pp: English.  
 CC V16668-81 represent polynucleotide sequences of partial or full-length  
 CC cDNA clones of colon-specific genes. The polynucleotides can be used  
 CC as probes to detect expression of the corresponding human genes, e.g. in  
 CC diagnostic assays for detecting micrometastases of colon cancer.  
 CC Recombinant cells containing the polynucleotides can be used to  
 CC produce the polypeptides. In order that antibodies can be raised and  
 CC used in further screening or diagnostics. 173 G: 107 T:  
 SQ Sequence 548 BP: 137 A: 128 C: 173 G: 107 T:

Query Match 100.0%; Score 251; DB 40; Length 548;  
 Best Local Similarity 100.0%; Pred. No. 5.18e-156;  
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 144 ggggggtgcactgtctcgtgtgctcttcagacagatccaggacaaatgaagatga 203  
 |||||||

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Yy      1 GGGGGGTGCACTGCTGCTGCTGGCCCTTCTACAGCAGATCCAGGGACCAAAATGAACGATA 60
Db      204 aaacaggaagaacttctcctgacctggaggatccatacgcaaaacaactggcttcgcgga 263
Oy      61 AAGAGAGAACAACCTTTCTCTGACTTGCGAGTTCCTACGCCAATAACATGGGCTCCGGGA 120
Db      264 caagtgggtcttcattagtagagccaagaacctcagggggttaaaagcccctttgagcagttct 323
Oy      121 CAGCTGGCTTCTTAGAGACCCAAAGACCTCAGGGGTAAAAGCCCCCTTGAAGAGATTCTT 180
Db      324 aaagaaaagccccagagaccacaacaataacgagggatggccagagctctgtgagatggaggg 383
Oy      181 AAACAAACAGCCCACAGCACAAACAAATACGAGGGATGGCCAGAGCTGCTGAGATGGAGGG 240
Db      384 ctgcgatgcccc 394
Oy      241 CTCGATGCCCC 251

          ,LT       2
ID      T45883 standard; cDNA; 548 BP.
AC      T45883;
DT      13-MAR-1997 (first entry)
DE      Human colon specific gene CSG4 cDNA partial clone.
KW      Colon specific gene; CSG4; colon cancer; metastasis; diagnosis;
OS      Homo sapiens.
FH      Key Location/Qualifiers
FT      cds 1..408 /*tag= a
PD      W09639419-A1.
PF      12-DEC-1996.
PR      06-JUN-1995; U07289.
PA      (HUMA-) HUMAN GENOME SCI INC.
PI      Rosen CA, Yu G.
WP1:    97-043054/04.
P-PSD:  W06547.
PT      Human colon specific genes and their expression products - detection
PT      of which, in non-colon tissue samples, can be used as indication of
PT      colon cancer metastasis
PS      Claim 1; Fig 4; 60pp; English.
CS      13 cDNA clones (T45880-92), most of them partial clones, correspond
CC      to human colon specific genes, designated CSG1, CSG2, etc., that
CC      are primarily expressed in tissues derived from the colon. CSG7
CC      and CSG10 show reduced expression in colon cancer cells as compared
CC      to that in normal cells; the remaining genes are overexpressed in
CC      colon cancer. The partial cDNA sequences can be used to isolate
CC      full-length clones and genomic clones including the complete gene.
CC      CS6 nucleic acids can be used to produce CSG polypeptides (see also
CC      W05445-53) in transformed host cells, as probes to detect disorders
CC      of the colon, partic. colon cancer and colon cancer metastasis, and
CC      in gene therapy.
SC      Sequence 548 BP; 137 A; 129 C; 172 G; 107 T;

Query Match          99.2%; Score 249; DB 27; Length 548;
Best Local Similarity 99.6%; Pred. No. 1,37e-154;
Matches 250; Conservative 0; Mismatches 1; Indels 0; Gaps 0.

Db      144 ggggggtgcaactgtgtgtgtgtgacctctaagagagatccaggagaccaaatgaaacgatatga 203
Oy      1 GGGGGGTGCACGTGCTGCTGAGTGGGAGTTCCTACGCCAATAACATGGGCTCCGGGA 60
Db      204 aaagaaaagacctctctctgacctggaggatccatacgcaaaacaactgggcttcgcgga 263
Oy      61 AAGCAGGAACAACCTTTCTCTGACTTGCGAGTTCCTACGCCAATAACATGGGCTCCGGGA 120
Db      264 cagctgggtcttcattagtagagccaagaacctcagggggttaaaagcccctttgagcagttct 323
Oy      121 CAGCTGGCTTCTTAGAGACCCAAAGACCTCAGGGGTAAAAGCCCCCTTGAAGAGATTCTT 180
Db      324 aaagaaaagccccagagaccacaacaataacgagggatggccagagctctgtgagatggaggg 383
Oy      181 AAACAAACAGCCCACAGCACAAACAAATACGAGGGATGGCCAGAGCTGCTGAGATGGAGGG 240
Db      384 ctgcgatgcccc 394
Oy      241 CTCGATGCCCC 251

          ,LT       2
ID      T45883 standard; cDNA; 548 BP.
AC      T45883;
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KW      Colon specific gene; CSG4; colon cancer; metastasis; diagnosis;
OS      Homo sapiens.
FH      Key Location/Qualifiers
FT      cds 1..408 /*tag= a
PD      W09639419-A1.
PF      12-DEC-1996.
PR      06-JUN-1995; U07289.
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CC      and CSG10 show reduced expression in colon cancer cells as compared
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CC      colon cancer. The partial cDNA sequences can be used to isolate
CC      full-length clones and genomic clones including the complete gene.
CC      CS6 nucleic acids can be used to produce CSG polypeptides (see also
CC      W05445-53) in transformed host cells, as probes to detect disorders
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CC      in gene therapy.
SC      Sequence 548 BP; 137 A; 129 C; 172 G; 107 T;

Query Match          99.2%; Score 249; DB 27; Length 548;
Best Local Similarity 99.6%; Pred. No. 1.37e-154;
Matches 250; Conservative 0; Mismatches 1; Indels 0; Gaps 0.

Db      144 ggggggtgcaactgtgtgtgtgtgacctctaagagagatccaggagaccaaatgaaacgatatga 203
Oy      1 GGGGGGTGCACGTGCTGCTGAGTGGGAGTTCCTACGCCAATAACATGGGCTCCGGGA 60
Db      204 aaagaaaagacctctctctgacctggaggatccatacgcaaaacaactgggcttcgcgga 263
Oy      61 AAGCAGGAACAACCTTTCTCTGACTTGCGAGTTCCTACGCCAATAACATGGGCTCCGGGA 120
Db      264 cagctgggtcttcattagtagagccaagaacctcagggggttaaaagcccctttgagcagttct 323
Oy      121 CAGCTGGCTTCTTAGAGACCCAAAGACCTCAGGGGTAAAAGCCCCCTTGAAGAGATTCTT 180
Db      324 aaagaaaagccccagagaccacaacaataacgagggatggccagagctctgtgagatggaggg 383
Oy      181 AAACAAACAGCCCACAGCACAAACAAATACGAGGGATGGCCAGAGCTGCTGAGATGGAGGG 240
Db      384 ctgcgatgcccc 394
Oy      241 CTCGATGCCCC 251

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AC      T45883;
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KW      Colon specific gene; CSG4; colon cancer; metastasis; diagnosis;
OS      Homo sapiens.
FH      Key Location/Qualifiers
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PF      12-DEC-1996.
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CC      of the colon, partic. colon cancer and colon cancer metastasis, and
CC      in gene therapy.
SC      Sequence 548 BP; 137 A; 129 C; 172 G; 107 T;

Query Match          99.2%; Score 249; DB 27; Length 548;
Best Local Similarity 99.6%; Pred. No. 1.37e-154;
Matches 250; Conservative 0; Mismatches 1; Indels 0; Gaps 0.

Db      144 ggggggtgcaactgtgtgtgtgtgacctctaagagagatccaggagaccaaatgaaacgatatga 203
Oy      1 GGGGGGTGCACGTGCTGCTGAGTGGGAGTTCCTACGCCAATAACATGGGCTCCGGGA 60
Db      204 aaagaaaagacctctctctgacctggaggatccatacgcaaaacaactgggcttcgcgga 263
Oy      61 AAGCAGGAACAACCTTTCTCTGACTTGCGAGTTCCTACGCCAATAACATGGGCTCCGGGA 120
Db      264 cagctgggtcttcattagtagagccaagaacctcagggggttaaaagcccctttgagcagttct 323
Oy      121 CAGCTGGCTTCTTAGAGACCCAAAGACCTCAGGGGTAAAAGCCCCCTTGAAGAGATTCTT 180
Db      324 aaagaaaagccccagagaccacaacaataacgagggatggccagagctctgtgagatggaggg 383
Oy      181 AAACAAACAGCCCACAGCACAAACAAATACGAGGGATGGCCAGAGCTGCTGAGATGGAGGG 240
Db      384 ctgcgatgcccc 394
Oy      241 CTCGATGCCCC 251

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AC      T45883;
DT      13-MAR-1997 (first entry)
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KW      Colon specific gene; CSG4; colon cancer; metastasis; diagnosis;
OS      Homo sapiens.
FH      Key Location/Qualifiers
FT      cds 1..408 /*tag= a
PD      W09639419-A1.
PF      12-DEC-1996.
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WP1:    97-043054/04.
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PT      of which, in non-colon tissue samples, can be used as indication of
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CS      13 cDNA clones (T45880-92), most of them partial clones, correspond
CC      to human colon specific genes, designated CSG1, CSG2, etc., that
CC      are primarily expressed in tissues derived from the colon. CSG7
CC      and CSG10 show reduced expression in colon cancer cells as compared
CC      to that in normal cells; the remaining genes are overexpressed in
CC      colon cancer. The partial cDNA sequences can be used to isolate
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CC      W05445-53) in transformed host cells, as probes to detect disorders
CC      of the colon, partic. colon cancer and colon cancer metastasis, and
CC      in gene therapy.
SC      Sequence 548 BP; 137 A; 129 C; 172 G; 107 T;

Query Match          99.2%; Score 249; DB 27; Length 548;
Best Local Similarity 99.6%; Pred. No. 1.37e-154;
Matches 250; Conservative 0; Mismatches 1; Indels 0; Gaps 0.

Db      144 ggggggtgcaactgtgtgtgtgtgacctctaagagagatccaggagaccaaatgaaacgatatga 203
Oy      1 GGGGGGTGCACGTGCTGCTGAGTGGGAGTTCCTACGCCAATAACATGGGCTCCGGGA 60
Db      204 aaagaaaagacctctctctgacctggaggatccatacgcaaaacaactgggcttcgcgga 263
Oy      61 AAGCAGGAACAACCTTTCTCTGACTTGCGAGTTCCTACGCCAATAACATGGGCTCCGGGA 120
Db      264 cagctgggtcttcattagtagagccaagaacctcagggggttaaaagcccctttgagcagttct 323
Oy      121 CAGCTGGCTTCTTAGAGACCCAAAGACCTCAGGGGTAAAAGCCCCCTTGAAGAGATTCTT 180
Db      324 aaagaaaagccccagagaccacaacaataacgagggatggccagagctctgtgagatggaggg 383
Oy      181 AAACAAACAGCCCACAGCACAAACAAATACGAGGGATGGCCAGAGCTGCTGAGATGGAGGG 240
Db      384 ctgcgatgcccc 394
Oy      241 CTCGATGCCCC 2
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OY      181  AAGGACAGGCCAGACACAAACAAATACGAGGGATGCCAGAGCTCTGGAGATGGAGGG 240
DB      384  ctgcagccccc 394
OY      241  CTGCATGCCCCC 251

RESULT      3
ID      Q51746 standard; cDNA; 91 BP.
AC      Q51746;
DT      31-MAY-1994 (first entry)
DE      Oligonucleotide probe MK14-A
KW      Oligonucleotide; DNA probe; mycobacteria; disease diagnosis;
OS      synthetic.
PN      EP-571911-A.
PD      01-DEC-1993.
PF      24-MAY-1993; 108325.
PR      26-MAY-1992; US-889651.
PA      (BECT ) BECTON DICKINSON CO.
PI      Shank DD, Spears PA;
PT      WPI; 93-378844/48.
PT      New oligo:nucleotide probes specific for Mycobacteria - used for
PT      detection and amplification of Mycobacteria nucleic acid in
PT      samples
PS      Claim 3; Page 14; 23pp; English.
SC      Oligonucleotide probe MK14-A consists of nucleotides 5-95 of MK14
CC      (Q51735). It hybridized to all spp. of mycobacteria tested, but
CC      cross reacted to a few non-mycobacterial spp. The probe may
CC      be useful as an initial screen for mycobacterial infection.
CC      See also Q51735-45 and Q51747-59.
SQ      Sequence 91 BP; 5 A; 17 C; 15 G; 4 T;

Query Match      16.3%; Score 41; DB 9; Length 91;
Best Local Similarity 0.0%; Pred. No. 1.27e-11;
Matches 0; Conservative 45; Mismatches 4; Indels 0; Gaps 0;

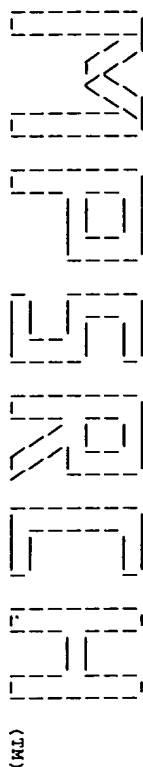
DB      12  svhsyyvvvshhsbhsvhvnhvsvvvvvvhhvvhvhhvhyvsv 60
OY      16  GCTGTGGCTCTCCTACGACGATCCAGGAGCAAAATGACATGAAAGC 64

RESULT      4
ID      Q51746 standard; cDNA; 91 BP.
AC      Q51746;
DT      31-MAY-1994 (first entry)
DE      Oligonucleotide probe MK14-A
KW      Oligonucleotide; DNA probe; mycobacteria; disease diagnosis;
OS      synthetic.
PN      EP-571911-A.
PD      01-DEC-1993.
PF      24-MAY-1993; 108325.
PR      26-MAY-1992; US-889651.
PA      (BECT ) BECTON DICKINSON CO.
PI      Shank DD, Spears PA;
PT      WPI; 93-378844/48.
PT      New oligo:nucleotide probes specific for Mycobacteria - used for
PT      detection and amplification of Mycobacteria nucleic acid in
PT      samples
PS      Claim 3; Page 14; 23pp; English.
SC      Oligonucleotide probe MK14-A consists of nucleotides 5-95 of MK14
CC      (Q51735). It hybridized to all spp. of mycobacteria tested, but
CC      cross reacted to a few non-mycobacterial spp. The probe may
CC      be useful as an initial screen for mycobacterial infection.
CC      See also Q51735-45 and Q51747-59.
SQ      Sequence 91 BP; 5 A; 17 C; 15 G; 4 T;

Query Match      14.3%; Score 36; DB 9; Length 91;
Best Local Similarity 0.0%; Pred. No. 1.24e-08;
Matches 0; Conservative 43; Mismatches 7; Indels 0; Gaps 0;

DB      11  ssvhsyyvvvshhsbhsvhvnhvsvvvvvvhhvvhvhhvhyvsv 60

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(TM)

Release 3.1A John F. Collins, Biocomputing Research Unit.  
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Distribution rights by Oxford Molecular Ltd

MPearch\_n n.a. - n.a. database search, using Smith-Waterman algorithm

From: Wed Sep 2 19:38:28 1998; Mailpar time 41.52 Seconds  
612.759 Million cell updates/sec

aler output not generated.

Title: >US-09-052-855A-9  
Description: (1-187) from US09052855A.seq  
Perfect Score: 184  
N.A. Sequence: 1 GGGATGCGCAGACTGCTGG.....CTGCAAGTCTTGAAGNNG 187  
Comp: CCTTACCGGCTCGAGACGAC.....GAGCTTCAGAACTTCNNC

Scoring table: TABLE default

Match STD : Dbase 0; Query 0

Searched: 188442 segs, 68026449 bases x 2

Post-Processing: Minimum Match 0%

Listing first 45 summaries

Database:

n-geneseq32  
1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7  
8:part8 9:part9 10:part10 11:part11 12:part12 13:part13  
14:part14 15:part15 16:part16 17:part17 18:part18  
19:part19 20:part20 21:part21 22:part22 23:part23  
24:part24 25:part25 26:part26 27:part27 28:part28  
29:part29 30:part30 31:part31 32:part32 33:part33  
34:part34 35:part35 36:part36 37:part37 38:part38  
39:part39 40:part40

Statistics: Mean 7.525; Variance 5.343; scale 1.408

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	Pred. No.
1	152	82.6	548	27	Human colon specific	7.00e-72
2	152	82.6	548	40	Polynucleotide sequen	7.00e-72
3	42	22.8	91	9	Oligonucleotide probe	6.57e-10
4	38	20.7	204	1	Oligonucleotide probe	7.17e-08
5	37	20.1	204	1	Base substituted E.co	2.28e-07
6	35	19.0	91	9	Oligonucleotide probe	2.27e-06
7	31	16.8	114	12	Generic DNA sequence	2.04e-04
8	30	16.3	114	12	Generic DNA sequence	6.13e-04
9	28	15.2	114	12	Generic DNA sequence	5.39e-03
10	28	15.2	114	12	Generic DNA sequence	5.39e-03
11	28	15.2	114	12	Generic DNA sequence	5.39e-03
12	28	15.2	114	12	Generic DNA sequence	5.39e-03
13	28	15.2	114	12	Generic DNA sequence	5.39e-03

C	14	28	15.2	114	12	070465	Generic DNA sequence	5.39e-03
C	15	28	15.2	114	12	070467	Generic DNA sequence	5.39e-03
C	16	27	14.7	114	12	070467	Generic DNA sequence	1.57e-02
C	17	27	14.7	114	12	070467	Generic DNA sequence	1.57e-02
C	18	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	19	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	20	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	21	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	22	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	23	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	24	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	25	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	26	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	27	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	28	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	29	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	30	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	31	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	32	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	33	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	34	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	35	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	36	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	37	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	38	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	39	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	40	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	41	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	42	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	43	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	44	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02
C	45	26	14.1	114	12	070468	Generic DNA sequence	4.53e-02

## ALIGNMENTS

RESULT	1	ALIGNMENTS
ID	T45883	standard; cDNA; 548 BP.
AC	T45883	
DT	13-MAR-1997	(first entry)
DE	Human colon specific gene CSG4 cDNA partial clone.	
KW	Colon specific gene; CSG4; colon cancer; metastasis; diagnosis;	
OS	Homo sapiens.	
EH	Key	Location/Qualifiers
FT	Cds	1..408
FT		/*tag- a
PN	W0639419-A1.	
PD	12-DEC-1996.	
PF	06-JUN-1995; U07289.	
PR	06-JUN-1995; W07289.	
PA	(HUMA-) HUMAN GENOME SCI INC.	
PI	Rosen CA, Yu G;	
DR	WPI; 97-043054/04.	
PT	P-PSDB; W06547.	
PT	Human colon specific genes and their expression products - detection of	
PT	of which, in non-colon tissue samples, can be used as indication of	
PT	colon cancer metastasis	
PS	Claim 1: Fig 4; 60pp; English.	
CC	13 cDNA clones (T45880-92), most of them partial clones, correspond	
CC	to human colon specific genes, designated CSG1, CSG2, etc., that	
CC	are primarily expressed in tissues derived from the colon. CSG	
CC	and CSG10 show reduced expression in colon cancer cells as compared	
CC	to that in normal cells; the remaining genes are overexpressed in	
CC	colon cancer. The partial cDNA sequences can be used to isolate	
CC	full-length clones and genomic clones including the complete gene.	
CC	CSG nucleic acids can be used to produce CSG polypeptides (see also	
CC	W06545-53) in transformed host cells, as probes to detect disorders	
CC	of the colon, partic. colon cancer and colon cancer metastasis, and	
CC	in gene therapy.	
CC	Sequence 548 BP; 137 A; 129 C; 172 G; 107 T;	
CC	Query Match	82.6%; Score 152; DB 27; Length 548;

